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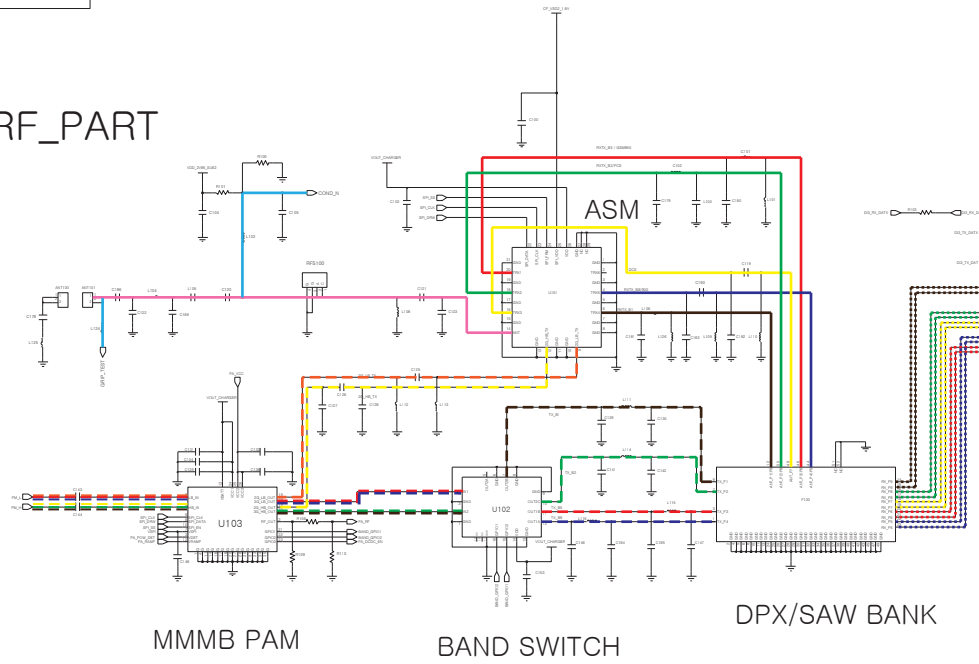
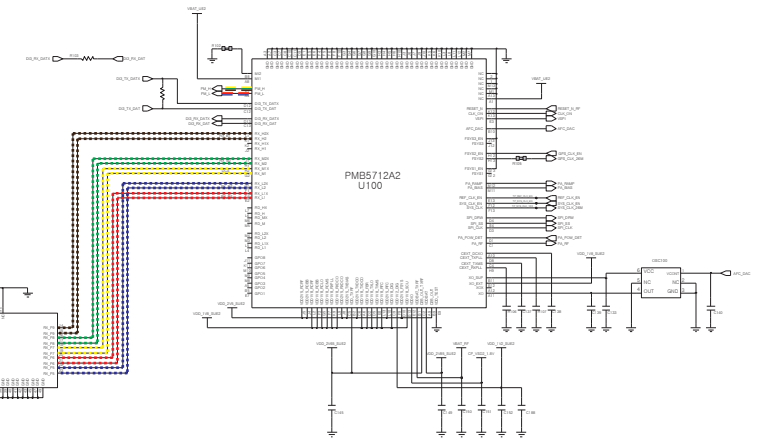
RF_PART



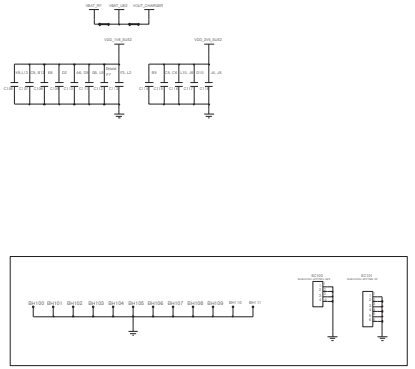
MMMB PAM

BAND SWITCH



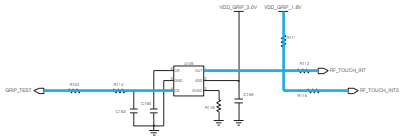
TRANSCIEVER

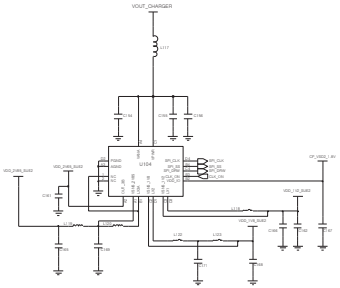
DPX/SAW BANK



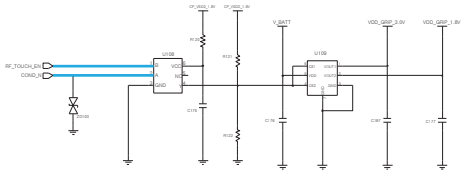
BOTH

GRIP SENSOR

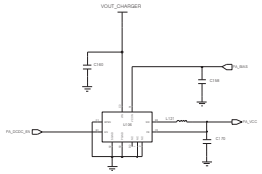




TRANSCIEVER DCDC



GRIP SENSOR LDO



PAM DCDC

- Ant
- GSM850/ WCDMA850 TX/ RX
- GSM900/ WCDMA900 TX/ RX
- GSM1800 TX/ RX
- GSM1900/ WCDMA1900 TX/ RX
- WCDMA2100 TX/ RX
- GSM850/ WCDMA850 RX
- GSM900/ WCDMA900 RX
- GSM1800 RX
- GSM1900/ WCDMA1900 RX
- WCDMA2100 RX
- WCDMA850 TX
- WCDMA900 TX
- WCDMA1900 TX
- WCDMA2100 TX
- GSM850/ GSM900 TX
- GSM1800/ GSM1900 TX
- Grip Sensor

Service Schematic

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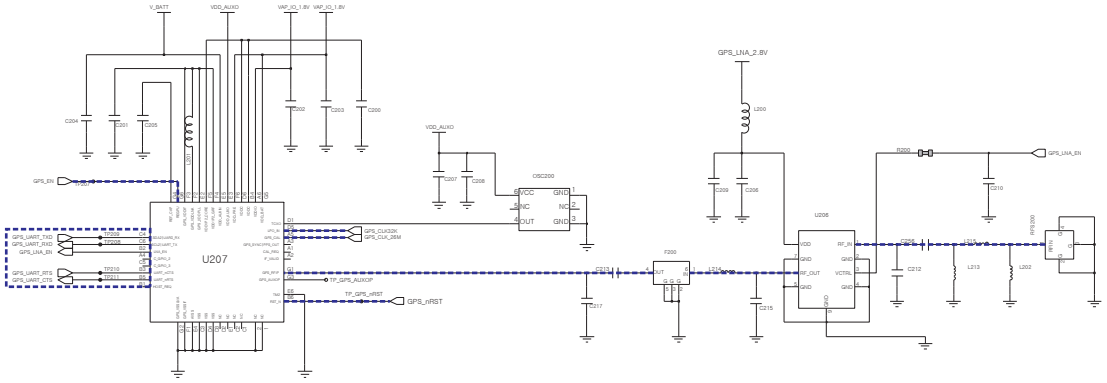
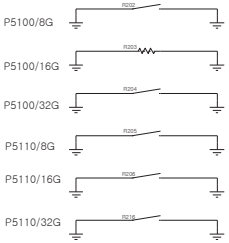
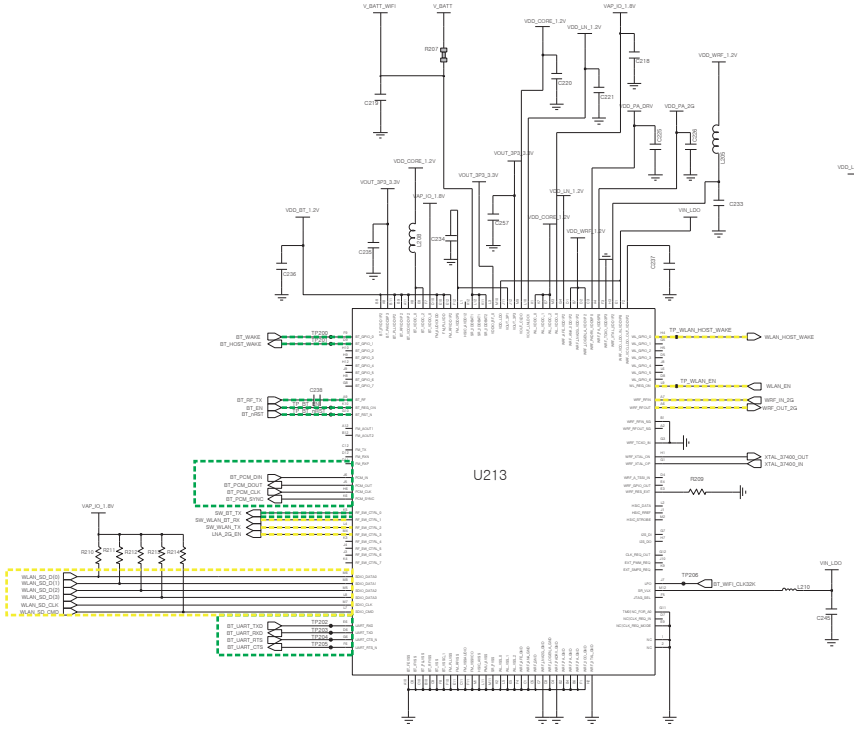
CONNECTIVITY_PART



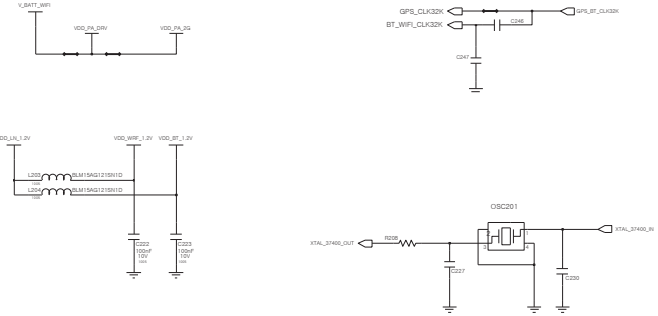
Broadcom GPS

GPS LNA

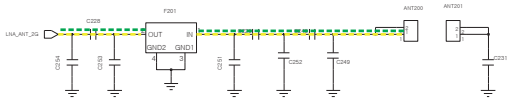


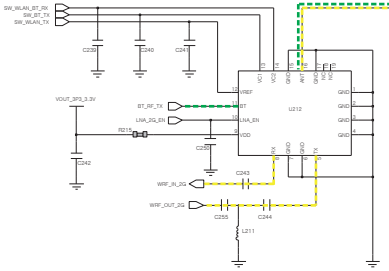


BT/ Wi-Fi

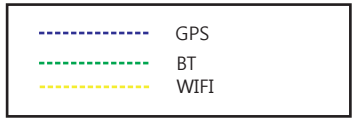


BT/WIFI OSC





WIFI LNA(2G)



Service Schematic

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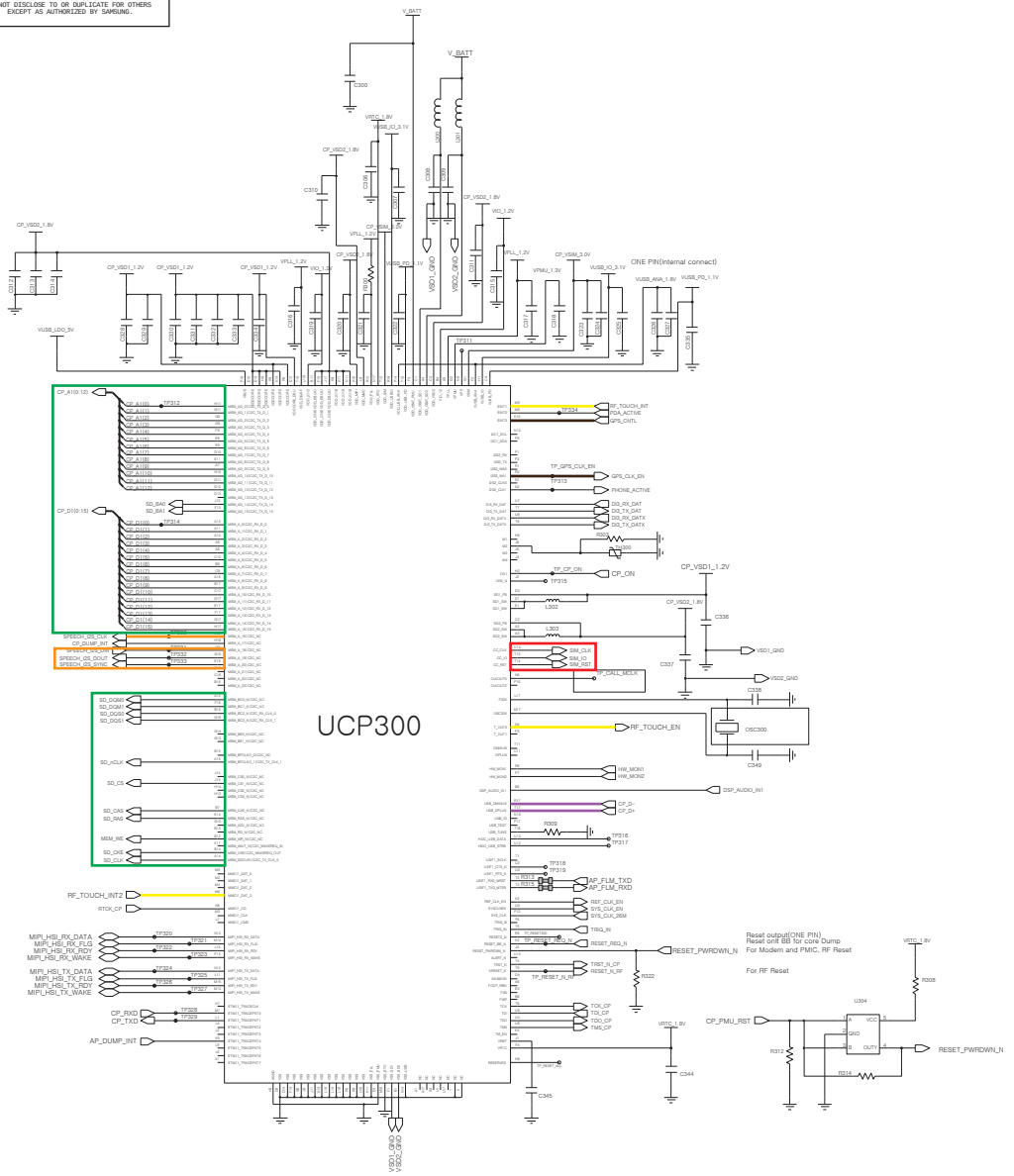
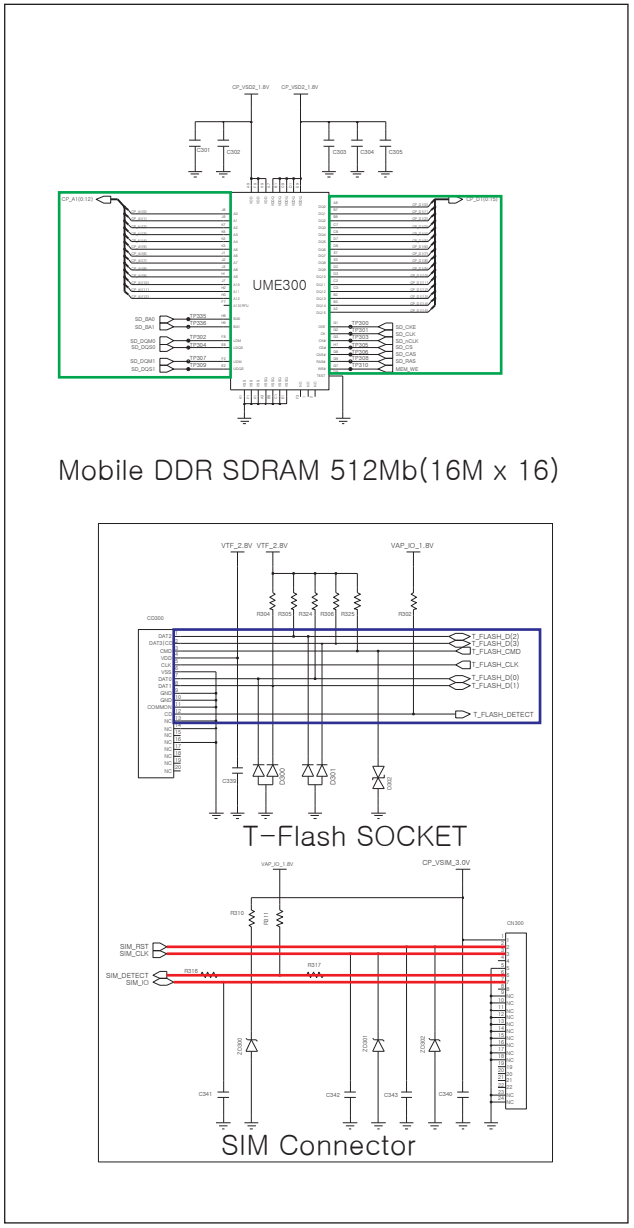
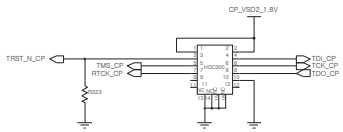
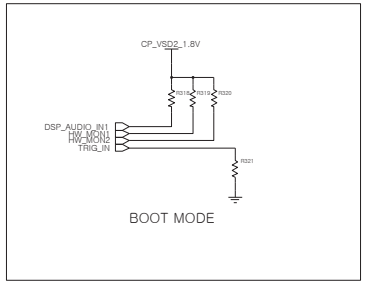
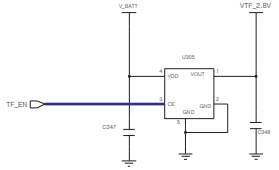


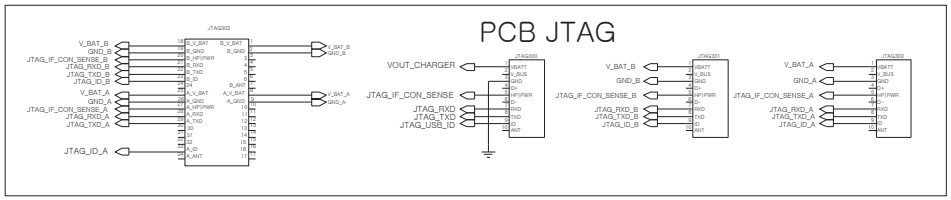


SIM
T-Flash
SDRAM
Grip Sensor
USB
GPS
Audio
TX/ RX I/Q









Service Schematic

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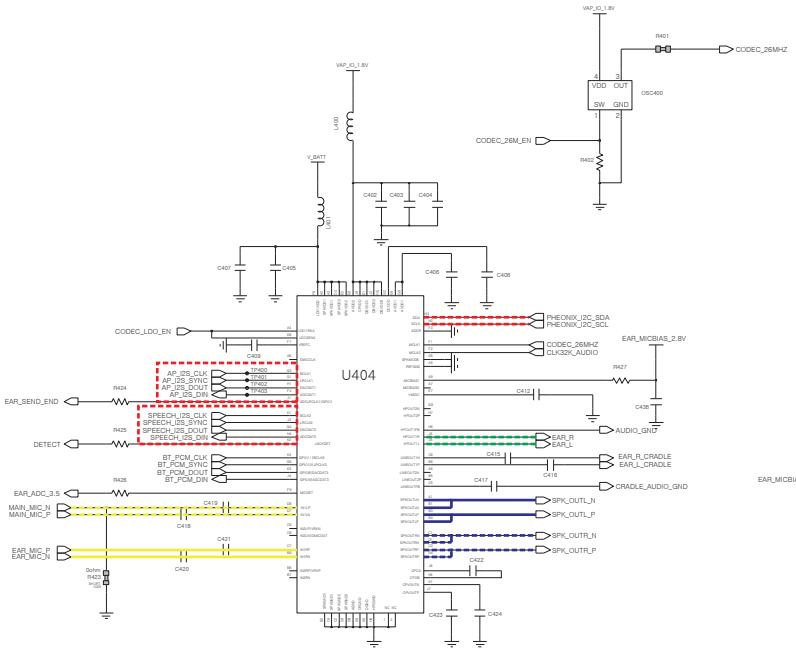
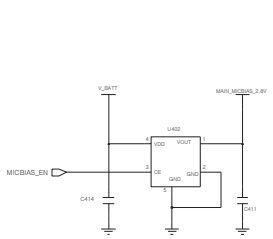
Audio
TX/ RX I/Q
Speaker(R)
Speaker(L)
3.5pi Earjack
Main MIC
Ear MIC

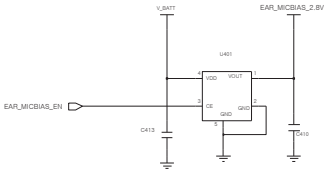
Audio PART



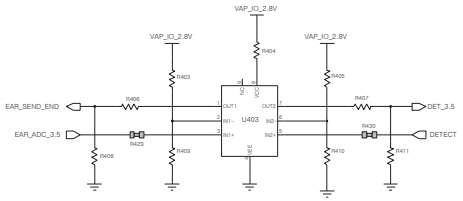
AUDIO CODEC



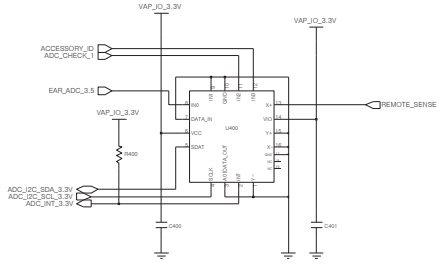
MIC BIAS LDO



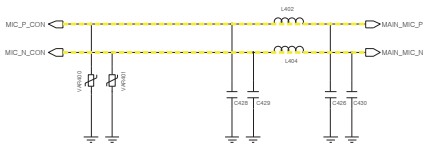
EAR_MICBIAS 2.8V



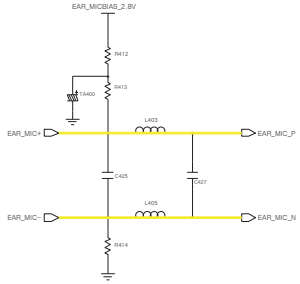
Comparator



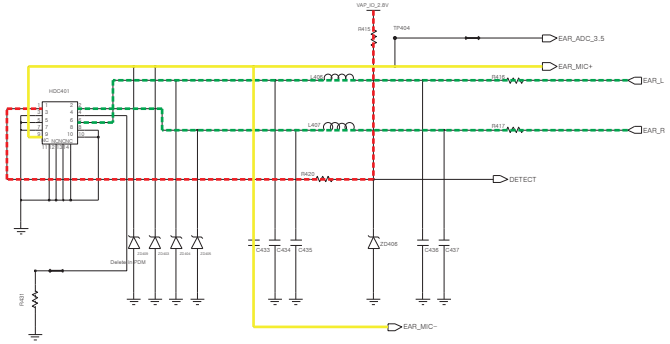
ADC IC



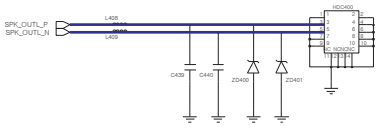
Main MIC



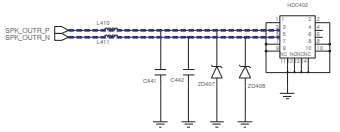
Ear MIC



3.5PI EARJACK & / MOTOR Conn.



Left SPK conn



Right SPK / MOT conn

Service Schematic

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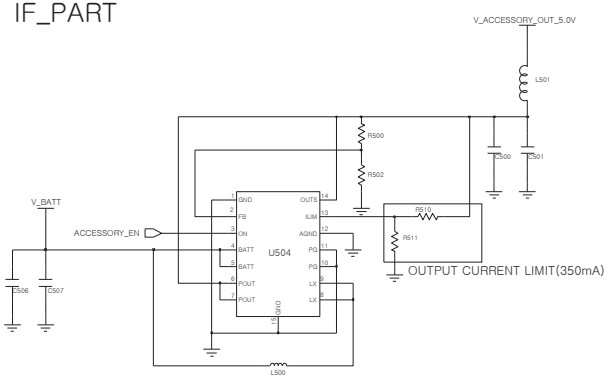
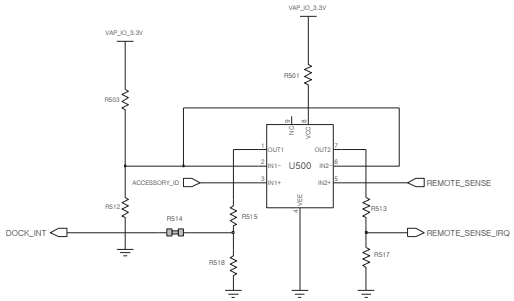
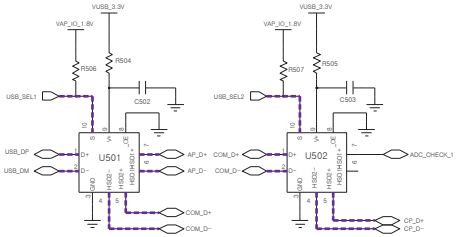
IF_PART



ACCESSORY_PWR

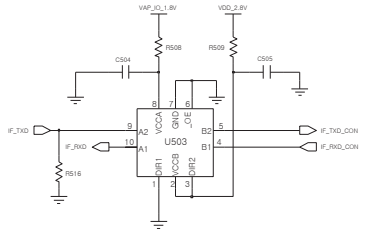


ACCESSORY_INT

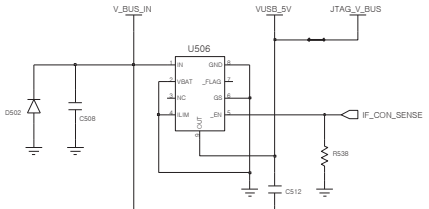


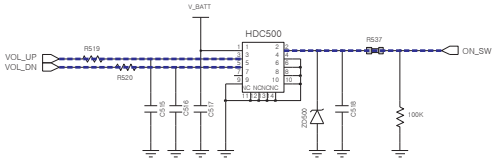
USB SWITCH IC

	USB_SEL1	USB_SEL2	USB_SEL3
AP Client	HIGH	X	HIGH
AP Host	HIGH	X	LOW
CP	LOW	LOW	X
ADC	LOW	HIGH	X



UART Level Shifter





POWER & VOLUME KEY

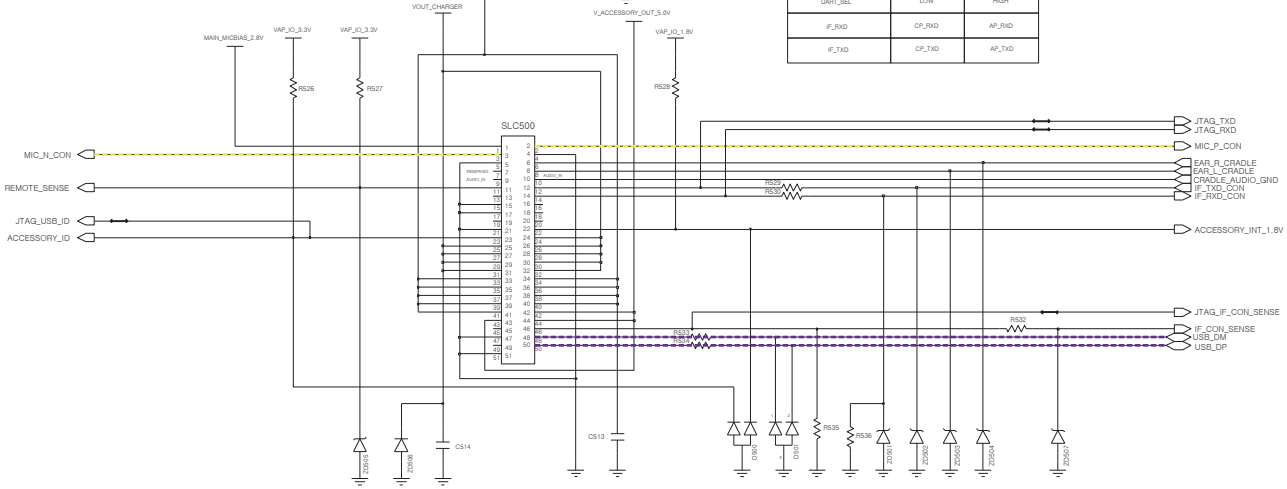
REAL KEY MAP

	VOL_UP	VOL_DOWN
KBC(1)	KBR(0)	KBR(1)

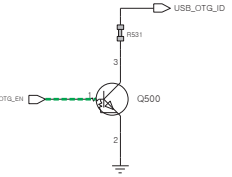
KEYFPCB MAP

	VOL_UP	VOL_DOWN
KBC(1)	KBR(0)	
		VOLUME_DN_CON to GND

UART_SEL	LOW	HIGH
IF_RXD	CP_RXD	AP_RXD
IF_TXD	CP_TXD	AP_TXD



50pin <- 30pin I/F



OTG Enable

Power&Volume Key
OTG
Main MIC
USB

Service Schematic

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AP_PART

UCP600

BOOT SELECT

H/W REV

Movi-Nand(16GB)

Movi-Nand DCDC

U610

AP BYPASS CAPACITOR

MOT

SYSTEM MAIN CLOCK

JTAG

<Audio>
RX/ TX/ IQ

Charging
T-Flash
LCD
TSP
3M Camera
BT
WIFI
GPS
Movi-NAND
USB
Sensor
Main Clock
SIM
Motor

Service Schematic

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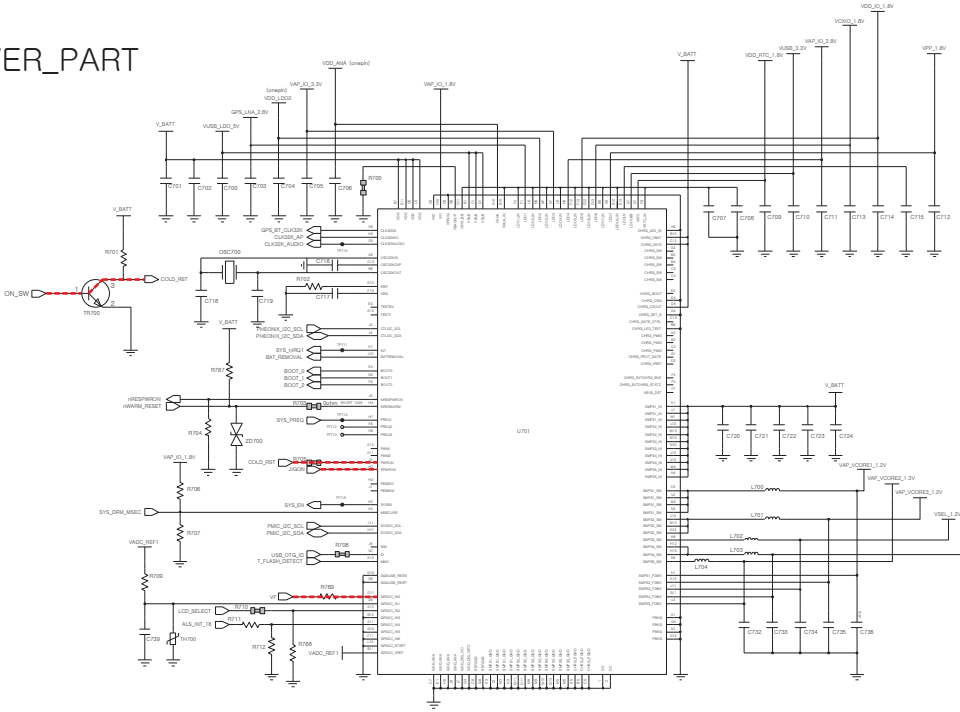
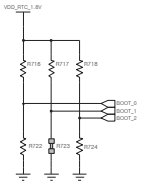
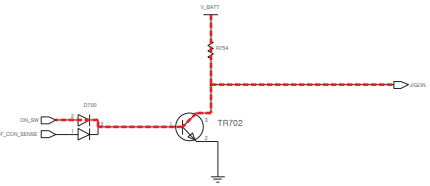
POWER_PART



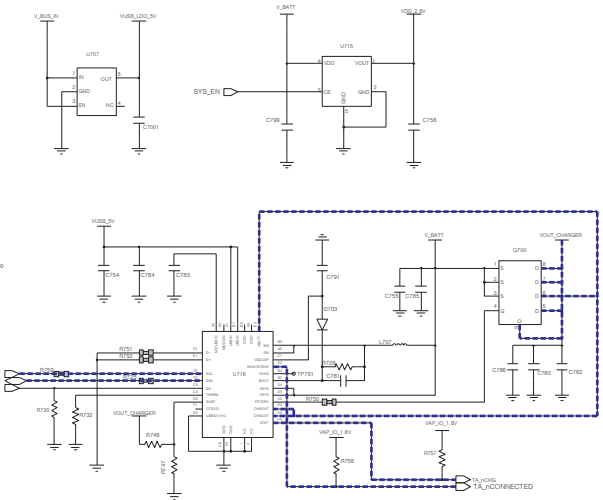
NET NAME	TYPE	Rated Current	PON State
VAP_VCORE1_1.2V	BUCK1	3500mA	
VAP_VCORE3_1.2V	BUCK2	2000mA	
VSEL_1.2V	BUCK3	1100mA	
VAP_IO_1.8V	BUCK4	1100mA	
VAP_VCORE2_1.3V	BUCK5	1100mA	
GPS_LNA_2.8V	LDO1	80mA	
VDD_LDO2(one pin)	LDO2	200mA	
VAP_IO_3.3V	LDO3	200mA	
VAP_IO_2.8V	LDO4	200mA	
VDD_IO_1.8V	LDO5	200mA	
VCXIO_1.8V	LDO6	200mA	
VPP_1.8V	LDO7	200mA	
NC	LDOLN	50mA	
VDD_RTC_1.8V	VRTC	25mA	
VDD_ANA (one pin)	VANA	25mA	
VUSB_3.3V	LDOUSB	100mA	

LDO Vout : 1.0 ~ 3.3V (VRTC , VANA : 1.8V ~ 2.1V)

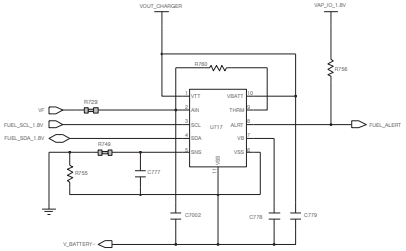




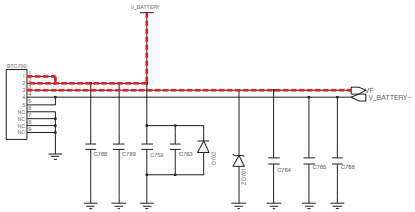
Power On Block



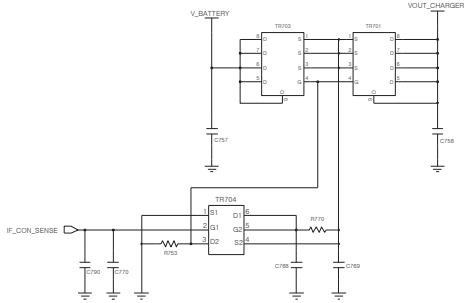
SWITCHING CHARGING BLOCK



FUEL GUAGE



BATTERY CONTACT



EXT_JIG_POWER_CONTROL

Service Schematic

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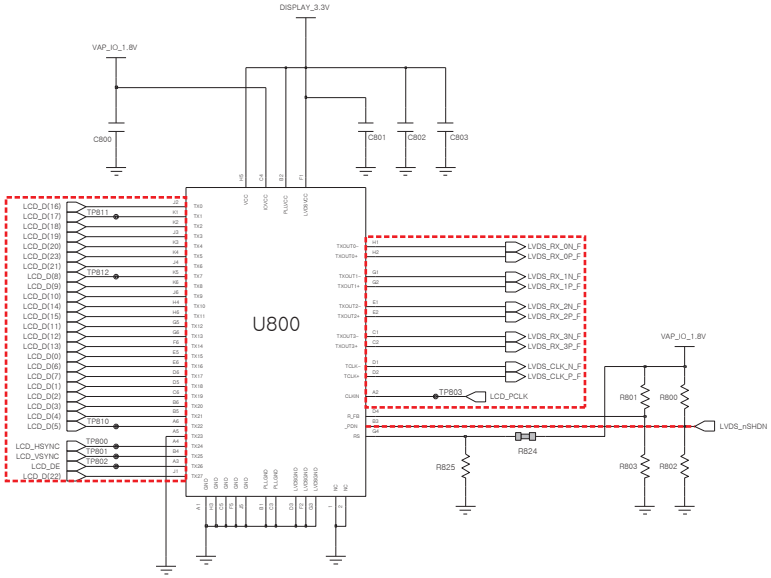
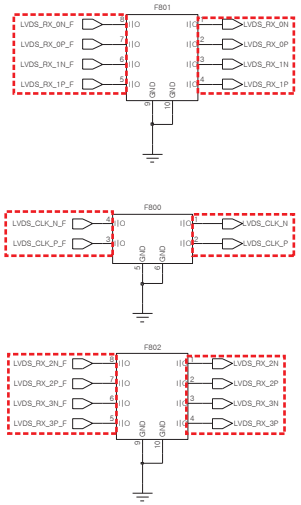
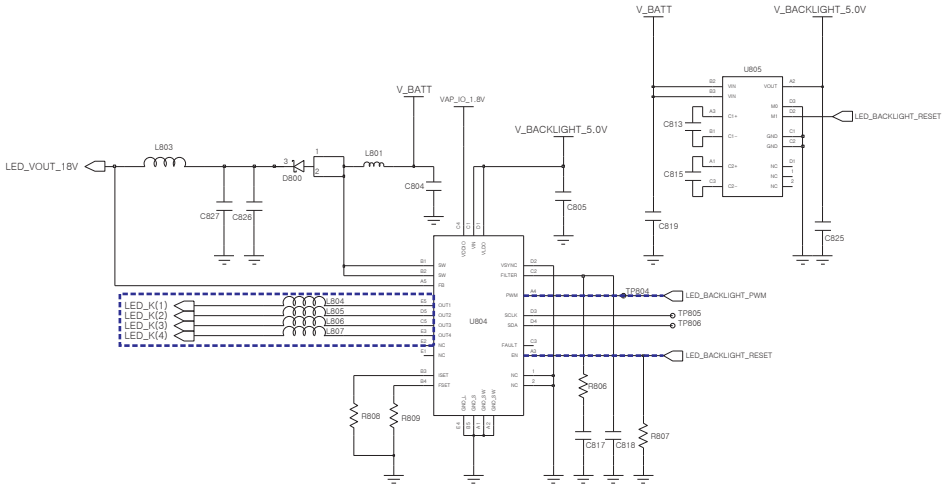
LCD_PART

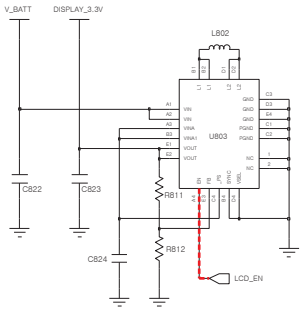


LVDS Transmitter

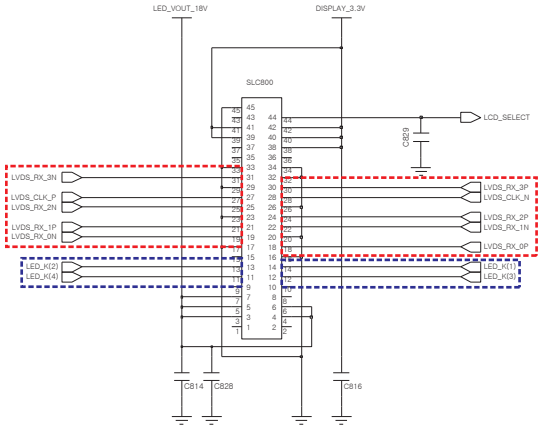




LED BACKLIGHT DRIVER IC



LCD BUCK BOOSTER



TFT LCD LVDS CON

LCD
LED Backlight

Service Schematic

SAMSUNG CONFIDENTIAL
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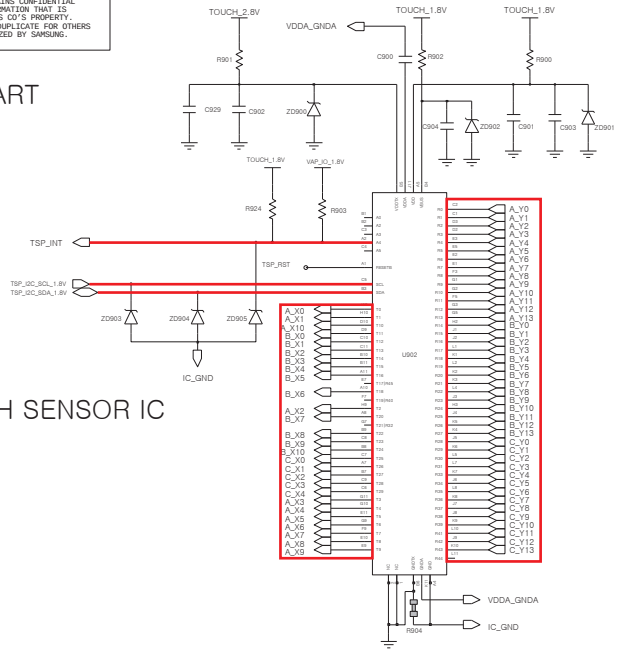
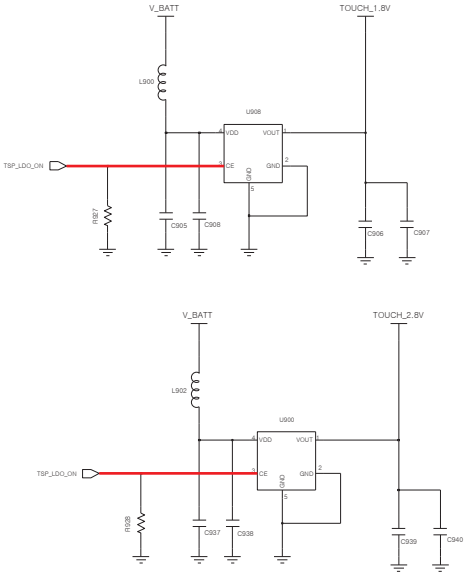
TSP PART



TOUCH SENSOR IC



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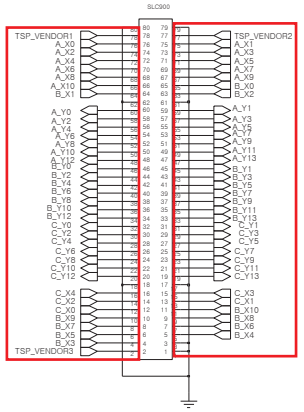
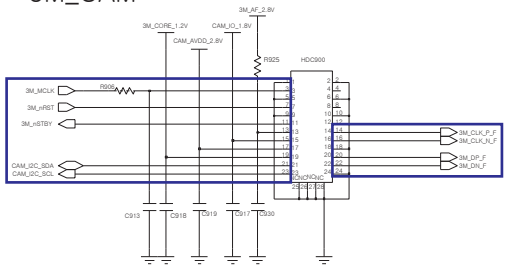


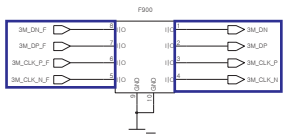
80Pin TOUCH Con.

TSP
3M Camera
VGA Camera
Sensor

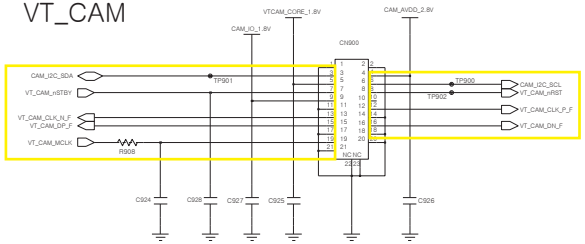
CAM PART

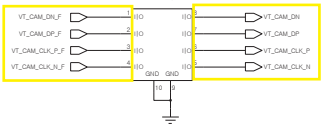
3M_CAM

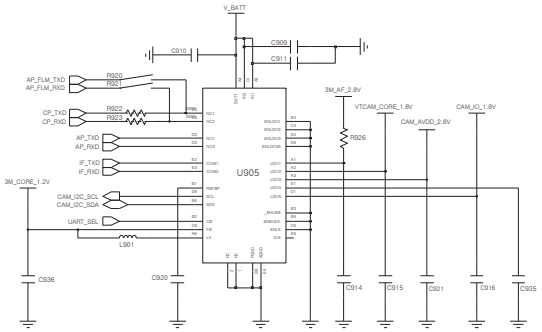




VT_CAM

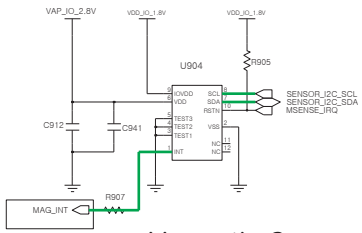




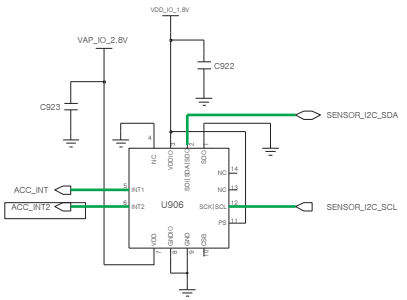


CAMERA POWER

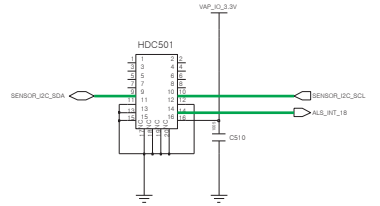
SENSOR_PART



Magnetic Sensor



Accelerometer Sensor



LIGHT

Service Schematic

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